

Supplemental Figure Legends

Fig. S1. Effect of ROCK kinase inhibitors on *L. monocytogenes* infection.

L2 cells were treated with increasing concentrations of the ROCK kinase inhibitors HA-1077, HA-1100 and Y27632 or DMSO (control) for 30 min prior to infection with wild-type *L. monocytogenes* 10403S. Cell-associated (total) and intracellular bacteria were quantified by gentamicin protection assay. Data represent the means \pm s.d. fold change in CFU upon inhibitor treatment relative to control samples for one of three experiments performed in triplicate with similar results. The bottom panels indicate Western blot analysis of the respective L2 cell lysates using antibodies specific for phospho-myosin light chain (MLC-P; upper panel) and myosin light chain 2 (MLC, lower panel). * $p < 0.05$, ** $p < 0.01$ compared to control.

Fig. S2. Foci of infection at 12 and 24 h post-infection. L2 monolayers seeded onto glass coverslips were treated with 10 μ M Y27632, 10 μ M LPA, or DMSO (control) and infected with GFP-expressing wild-type *L. monocytogenes* (10403S). At 1 h post-infection, coverslips were washed and medium containing 10 μ M Y27632, 10 μ M LPA, or DMSO and gentamicin was added and replaced at 4 h, 8 h, and 12 h post-infection. At 12 h and 24 h post-infection, coverslips were fixed, nuclei stained with Hoechst and analyzed by fluorescence microscopy. Shown are representative images of infected L2 cells (green). Cell nuclei are shown in blue.

Fig. S3. The Y27632-induced increase in bacterial infection may be specific for *L. monocytogenes*.

L2 or HeLa cell monolayers were treated with 10 μ M Y27632 or DMSO (control) for 30 min and infected with various bacterial species as described in Experimental Procedures. Cell-associated (total) and intracellular bacteria were quantified by gentamicin protection assay. Data represent the means \pm s.d. fold change in CFU upon Y27632 treatment relative to control samples for one of three experiments performed in triplicate with similar results. ** $p < 0.01$ compared to the control (control fold change =1).

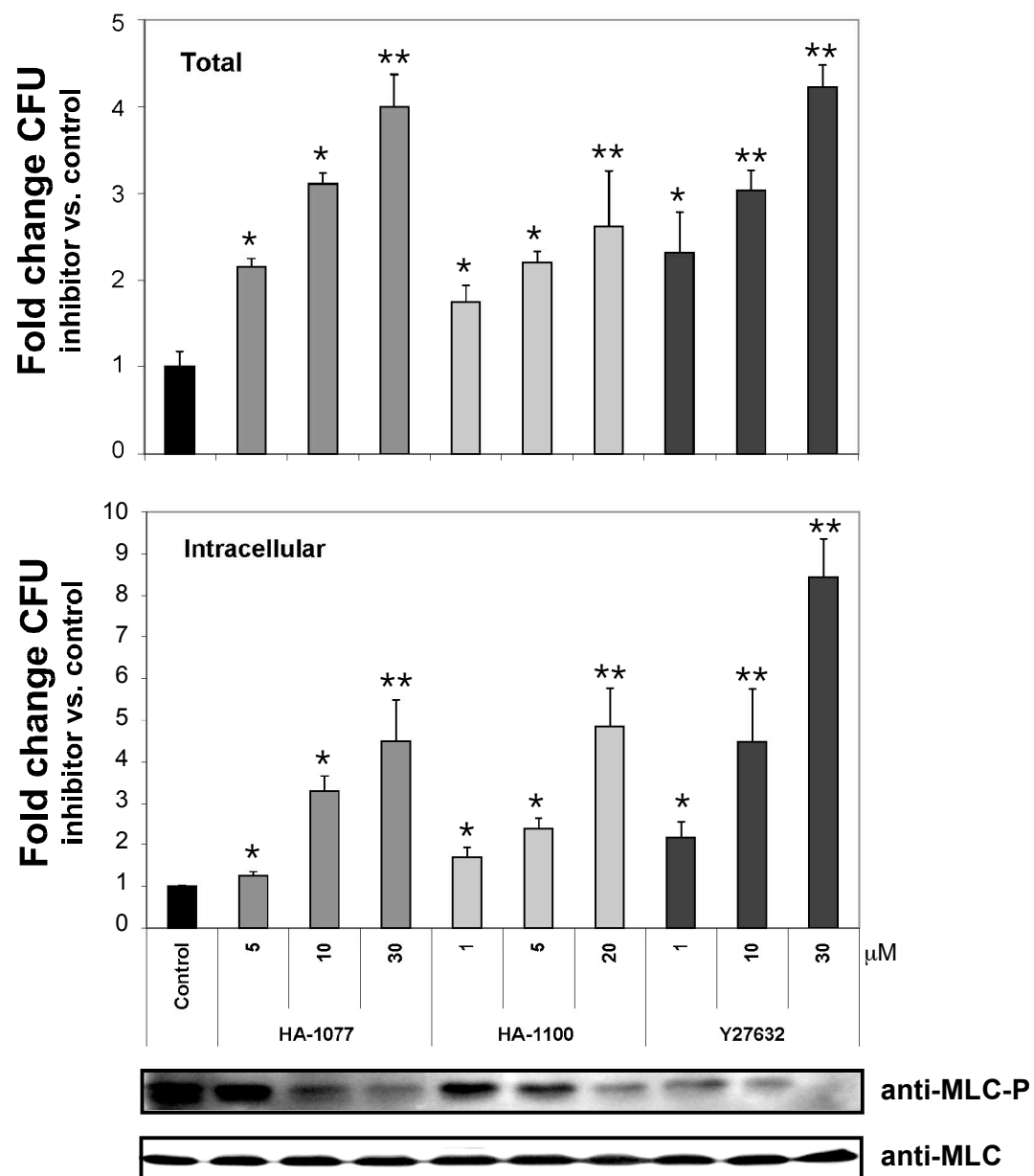


Fig. S1

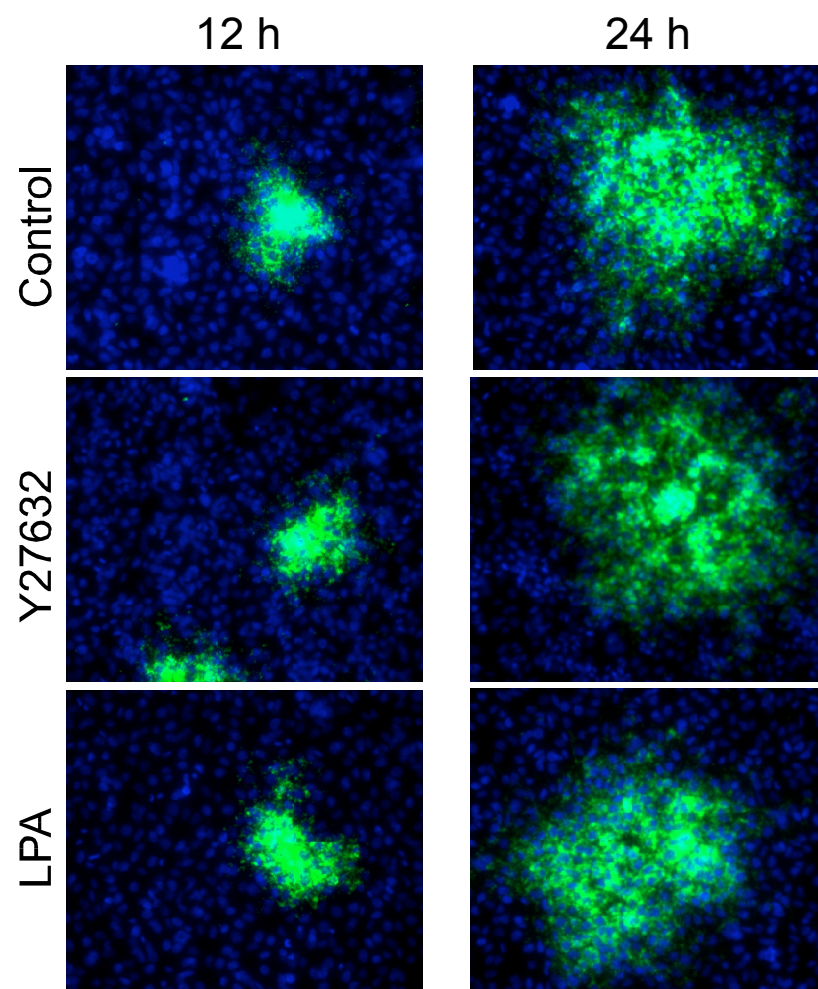


Fig. S2

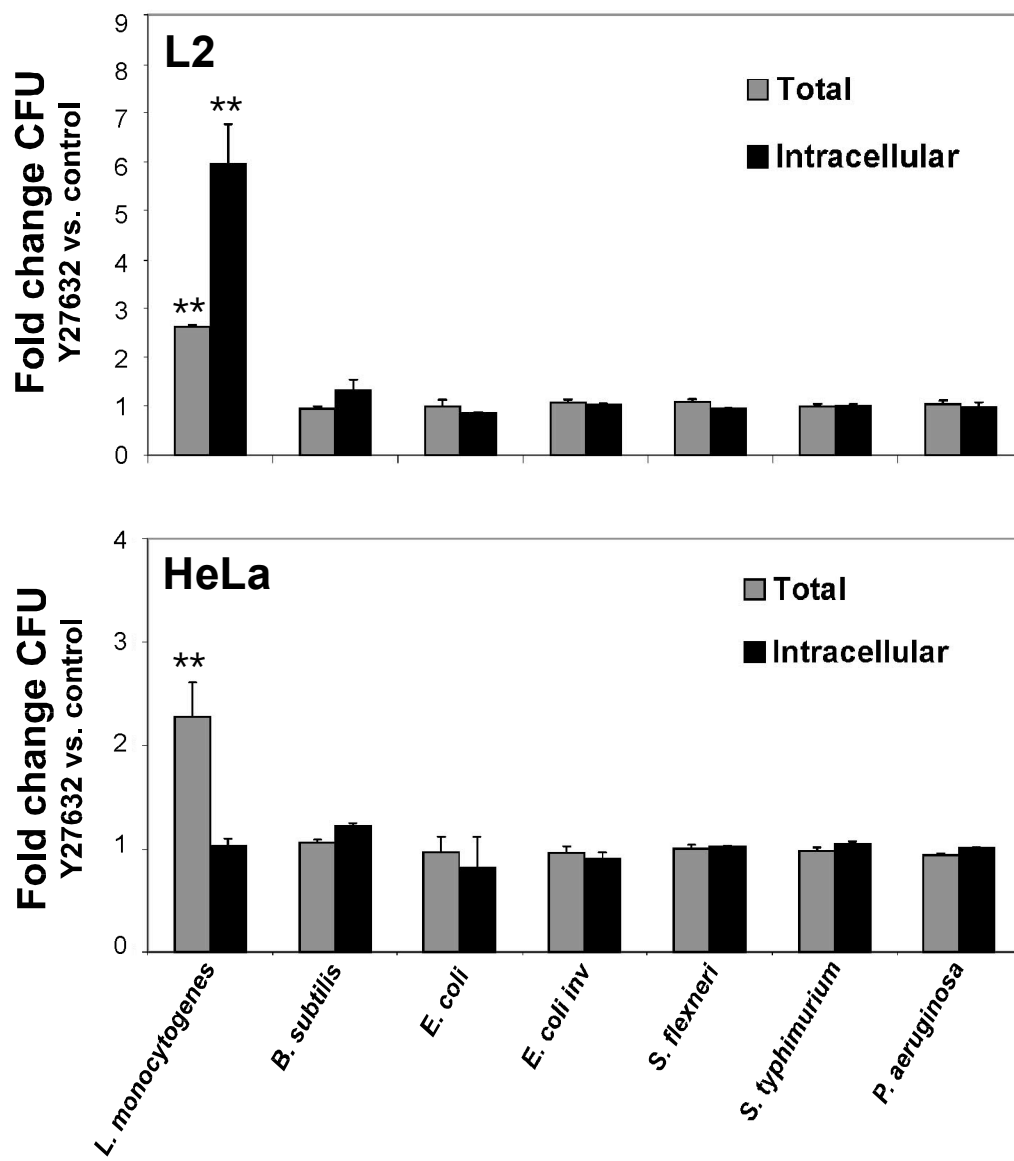


Fig. S3